Brown CS Pathways Planner

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In 2017, a new set of requirements was introduced for the Brown CS concentration that involved taking in classes in a set of chosen pathways. As a student, navigating the pathways can be a little daunting (due to the many overlaps between classes, and intermediate requirements for each track). The goal of this project is to create a web-based visualization tool to map out different pathways and help potential CS concentrators plan out their requirements at Brown. Users will be able to search and filter courses based on level, pathway and the semester offered. The tool will also be able to produce an interactive course plan based on a user's course selections. A poster detailing the initial design is attached on the next page.

This project is done as a capstone for CSCI 1320 (instructor: Professor Steve Reiss)
**Dashboard**  Landing page displays a dashboard with courses displayed (color-coded by pathway).

Pathways progress bar

Collapsible progress bars display how much the user has completed in each pathway, making it clear which pathways the user can undertake based on their course selections.

Overall progress

Shows how much of overall CS requirements the current course selection fulfills.

**Cart View**  Displays all courses added to selection

Multiple filtering

Filter courses by pathway, level (introductory, intermediate, advanced, graduate) and semester (fall/spring)

Course suggestions

Tool may suggest courses that will fulfill pre-requisites or incomplete pathways.